

I hereby certify that this paper and every paper referred to therein as being enclosed is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner of Patents, P.O. Box 2313-1450, on the date below

Attorney Docket No. 100716-58

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT

Ferdi SCHUTH, et al.

SERIAL NO.

10,517,683

CUSTOMER NO. :

27384

**FILED** 

December 10, 2004

**FOR** 

THERMALLY STABLE MATERIALS HAVING HIGH SPECIFIC

**SURFACES** 

ART UNIT

To Be Assigned

**EXAMINER** 

To Be Assigned

-Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450

### SECOND INFORMATION DISCLOSURE STATEMENT

SIR:

Pursuant to 37 CFR §§ 1.56, 1.97 and 1.98, Applicants respectfully request that the Examiner consider the references listed on the attached Form PTO-1449.

## I. Timeliness, Fees and Certifications in lieu of Fees

A. This information disclosure statement is being filed within three months of the filing date of the application, or within three months of entry into the national stage, or before the mailing of a first Office Action on the merits. Pursuant to 37 CFR § 1.97(b), consideration of this information disclosure statement does not require a fee or a statement under 37 CFR §

1.97(e). However, should the Assistant Commissioner determine that a fee is, in fact, due, the Assistant Commissioner is hereby authorized to charge the fee to Deposit Account No. 14-1263. B. This information disclosure statement is being filed after the period in A above, but before the mailing of either a final action or a notice of allowance. Pursuant to 37 CFR § 1.97(c), consideration of this information disclosure statement requires a fee or a statement under 37 CFR § 1.97(e): The Assistant Commissioner is hereby authorized to charge the fee set 1. forth in 37 CFR § 1.17(p) to Deposit Account No. 14-1263. Applicants hereby state that each item of information contained in this 2. information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. Applicants hereby state that no item of information contained in this 3. information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 CFR § 1.56 more than three months prior to the filing of this information disclosure statement. C. This information disclosure statement is being filed after the period specified in B above, but on or before the payment of the issue fee. Pursuant to 37 CFR § 1.97(d), consideration of this information disclosure statement requires a petition, which Applicants hereby request, and payment of the petition fee, which is set forth in 37 CFR § 1.17(i), and which the Assistant Commissioner is hereby authorized to charge to Deposit Account No. 14-1263. Consideration of this information disclosure statement also requires a statement under 37 CFR § 1.97(e): Applicants hereby state that each item of information contained in this information disclosure statement was cited in a communication from a foreign patent

	office i	n a counterpart foreign application not more than three months prior to the filing
	of the i	nformation disclosure statement.
		2. Applicants hereby state that no item of information contained in this
	inform	ation disclosure statement was cited in a communication from a foreign patent
	office i	n a counterpart foreign patent application, and, to the knowledge of the
	unders	gned after making reasonable inquiry, no item of information contained in this
	inform	ation disclosure statement was known to any individual designated in 37 CFR §
	1.56 m	ore than three months prior to the filing of this information disclosure statement.
II.	Copies	of Listed References
X	A.	Copies of all references listed on the attached Form PTO-1449 are being supplied
Copies	of U.S.	patents are not included pursuant to Pre-OG Notice dated July 11, 2003.
	B.	Copies of all references listed on the attached Form PTO-1449 have already been
supplie	ed durin	g the prosecution of prior application Serial No, filed, from which the
present	t applica	ation claims priority pursuant to 35 USC § 120. Therefore, pursuant to 37 CFR §
1.98(d)	), copies	s of the references listed on the attached Form PTO-1449 are not now being
supplie	ed.	
	C.	This application is a PCT national stage application, all references listed on the
attache	d Form	PTO-1449 were cited in the international search report, and PCT/DO/EO/903
indicat	es that l	both the international search report and the copies of the references listed on the
attache	d Form	PTO-1449 are in this national stage file. Therefore, copies of the references listed
on the	attached	f Form PTO-1449 are not now being supplied.
III.	Concis	se Statement of Relevance
X	A.	All references listed on the attached Form PTO-1449 are in the English language,
and, th	erefore,	a concise statement of relevance is not required.
	B.	All references listed on the attached Form PTO-1449 are referred to in the
specifi	cation a	nd/or were cited in the international search report, and a copy of that search report,

which indicates the degree of relevance found by the Search Authority, is attached.

The Examiner will note that English language counterparts or Abstracts of non-English language references are also enclosed, as follows:

# JP 62-265114 - Abstract

	C.	All references listed on the attached Form PTO-1449 were cited in the search
report	issued t	by the Patent Office, and an English-language version of that search report,
which	indicate	es the degree of relevance found by that Patent Office, is attached.
	D.	This application is a PCT national stage application, all references listed on the
attach	ed Form	PTO-1449 were cited in the international search report, and a copy of that search
report,	which	indicates the degree of relevance found by the International Search Authority, is
attach	ed.	
	E.	All listed on the attached Form PTO 1449 were cited during the prosecution of the
prior a	pplicati	on indicated above under II.B.
IV.	Additi	onal Information
	A.	In addition to the references listed on the attached Form PTO-1449, Applicants
wish t	o bring	to the attention of the Examiner the following abandoned or co-pending U.S. patent
applic	ations:	

[Pursu	ant to 3	7 CFR § 1.98(a)(2)(iii), copies of these applications are not being submitted.]
□ wish to	B. bring t	In addition of the references listed on the attached Form PTO-1449, Applicants of the attention of the Examiner the information provided on the attached sheet.
Consid	leration	of the foregoing in relation to this application is respectfully requested.
		Respectfully submitted,
		NORRIS MŒLAUGHLDV & MARCUS, P.A.
		By A
		Kurt G. Brische
		Attorney for Applicant(s)  Reg. No. 33/141
		875 Third Avenue - 18 <sup>th</sup> Floor
		New York, New York 10022
		Phone: (212) 808-0700
Date:		Fax: (212) 808-0844

Approved

se through 7/31/2006. OMB 0651-0031 S. DEPARTMENT OF COMMERCE

required to respond to a collection of information ur

U.S. Patent and Trademark O t contains a valid OMB control number.

Under the I	aperwor	k Reduction Act of 1995, no	persons	are required t	to res			ete if Known	iliber.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT'S (Form PTO-1449)				E [	Application Number 10,517,683		17.683			
				'S	Filing Date:		December 10, 2004			
								SCHUTH, et al.		
					Art Unit Not yet assigned					
						aminer Name:		et assigned		
Sheet 1		of 2				torney Docket Number:	100716-58			
			1	U.S. PAT		T DOCUMENTS				
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Initials*	No.1	Number-Kind Code <sup>2</sup>		I-DD-YYY	of Cited Document			Passages or Relevant Figures App	elevant Figures Appear	
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Examiner's Initials*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYY		Name of Patentee or Applicant of Cited Docu	ument	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>	
	В	JP-62-265114		05-07-19	88	T. Ogushi			<b>✓</b>	
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Examiner's Initials*	Cite No.									
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	D	M.F.L. JOHNSON, et al., "The Origin and Types of Pores in Some Alumina Catalysts", Journal of Catalysis, (1968), vol. 10, pages 342-354.								
E G.K. CHUAH, et al., "The Effect of Digestion on the Surface Area and Po-Alumina", Microporous and Mesoporous Materials, (2000), vol. 37, pages  F M.A. VALENZUELA, et al., "The Influence of the Preparation Method on Strucutre of ZnAl <sub>2</sub> 0 <sub>4</sub> , Applied Catalysis A, General, (1997), vol. 148, page  G G. BUSCA, et al., "Preparation, Solid-State Characterization, and Surface Surface Area Ni <sub>x</sub> Al <sub>2</sub> -2 <sub>x</sub> 0 <sub>3-2x</sub> Mixed Oxides", Chem. Mater., (1992), vol. 4,						Digestion on the Surfa				
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	J	A.C. PIERRE, et al. "Comparison of the Structure and Porous Texture of Alumina Gels Synthesized by Different Methods", Langmuir, (1998), vol. 14, pages 66-73.								

INFORMATION DISCLOSURE STATEMENT BY APPLICANT'S

(Form PTO-1449)

of 2

Sheet

Complete if Known					
Application Number	10/517,683				
Filing Date:	December 10, 2004				
First Named Inventor	SCHUTH, et al.				
Art Unit	Not yet assigned				
Examiner Name:	Not yet assigned				
Attorney Docket Number:	100716-58				

### NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	K	E. ELAOULI, et al., "Influence of the Sol-Gel Processing Method on the Structure and the Porous Texture of Nondoped Aluminas", J. Catal., (1997), vol. 166, pages 340-346.	
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	М	K. MAEDA, et al., "Thermal Behaviour of Aluminia from Aluminium Alkoxide Reacted with Complexing Agent", J. Chem Soc. Faraday Trans., (1992), vol. 88, pages 97-104)	
	N	G. BUSCA, et al., "Transition Metal Mixed Oxides as Combustion Catalysts: Preparation, Characterization and Activity Mechanisms", Catal. Today, (1997), vol. 33, pages 239-249.	
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	P	M. OZAWA, et al., "Preparation of Zirconia Powder by the Pyrolysis of Active Carbon", J. Mater. Sci. Lett., (1990), vol. 9, pages 446-448.	
	Q	C. MADSEN, et al., "Nanosized Zeolite Crystals-Convenient Control of Crystal Size Distribution by Confined Space Synthesis", Chem. Commun., (1999), pages 673-674.	
	R	H. WAKAYAMA, et al., "Nanoporous Metal Oxides Synthesized by the Nanoscale Casting Process Using Supercritical Fluids", Chem. Matter, (2001), vol. 13, pages 2392-2396.	
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	U	E.S.J. LOX, et al., "Environmental Catalysis", Wiley-VCH, Weinheim 1997, Handbook of Heterogeneous Catalysis, vol. 4, pages 1559-1633.	

#### **EXAMINER SIGNATURE:**

DATE CONSIDERED:

The collection of information is required by 37 CFR 1.197 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). 2see Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). for Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.